



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/582,392  
Confirmation No.: Herewith  
Filing Date: June 9, 2006  
Inventor(s): Horsky, et al.  
Group Art Unit: Unknown  
Examiner Name: Unknown  
Attorney Docket No.: 211843-00044

Title: Method and Apparatus for Extending Equipment Uptime in Ion Implantation

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

This document is being filed pursuant to the provisions of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

**I. TIME OF FILING**

- ☒ This document is being filed in accordance with 37 C.F.R. § 1.97(b) as it is believed to be filed:
- ☐ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
  - ☐ within three months of the date of entry of the national stage as set forth in § 1.491 in an international application;
  - ☒ before the mailing of a first Office action on the merits; or
  - ☐ before the mailing of a first Office action after the filing of a request for continued examination under § 1.114.

OR

\_\_\_\_\_ This document is being filed in accordance with 37 C.F.R. § 1.97(c) as it is believed to be filed before the mailing date of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application. This Statement is accompanied by one of:

\_\_\_\_\_ the following statements; or

\_\_\_\_\_ Each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

\_\_\_\_\_ No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.

\_\_\_\_\_ The fee set forth in § 1.17(p). Fee Transmittal Form PTO/SB/17 is attached.

**OR**

\_\_\_\_\_ This document is being filed in accordance with 37 C.F.R. § 1.97(d) as it is believed to be filed on or before the payment of the issue fee and is accompanied by one of the following statements and the fee set forth in § 1.17(p). Fee Transmittal Form PTO/SB/17 is attached.

\_\_\_\_\_ Each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

\_\_\_\_\_ No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.

Applicant(s) respectfully request that the documents listed on the attached Form PTO/SB/08A and/or Form PTO/SB/08B be considered and made of record.

**OR**

\_\_\_\_\_ It is requested that this Statement and enclosures be placed in the file. It is understood that the cited references will not be considered by the Office.

## II. FOREIGN PATENT OFFICE COMMUNICATIONS (if applicable)

\_\_\_\_\_ One or more of the items of information contained in the information disclosure statement were cited in a communication from a foreign patent office in a counterpart foreign application.

\_\_\_\_\_ A copy of the search report is attached.

## III. COPIES OF CITED REFERENCES

\_\_\_\_\_ Because this application was filed prior to June 30, 2003, copies of the document(s) listed on the attached Form(s) PTO/SB/08A and/or PTO/SB/08B are attached.

OR

\_\_\_\_\_ Because this application was filed after June 30, 2003, copies of non-U.S. patent citations as listed on the attached Form(s) PTO/SB/08A and/or PTO/SB/08B are attached.

AND (if applicable)

\_\_\_\_\_ All cited U.S. pending (non-published) applications listed on Form PTO/SB/08A are stored in the USPTO's IFW system. Copies are therefore not provided.

OR

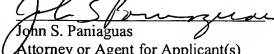
\_\_\_\_\_ One or more of the cited U.S. pending (non-published) applications (filed prior to June 30, 2003) as listed on Form PTO/SB/08A has not been stored in the USPTO's IFW system. Copies for the unstored applications are provided herewith.

## IV. REMARKS

The above constitutes information that an Examiner may find material to the examination of the subject application; however, it does not negate the patentability of the subject invention. Furthermore, it is not intended that submission of this information be taken as a representation that a search has been made or that no information which is more material exists.

The Commissioner is hereby authorized to charge any fees which may be required or credit any overpayment with respect to this communication to Deposit Account No. 50-1214. A duplicate copy of this communication is enclosed.

Date: 8-17-05

By:   
John S. Paniaguas  
Attorney or Agent for Applicant(s)  
Reg. No. 31,051

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 7 of

PTO/SB/08A (07-05)

Approved for use through 09/30/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

Application Number	10/582,392
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First Named Inventor	Horsky, et al.
Art Unit	Herewith
Examiner Name	Herewith
Attorney Docket Number	211843-00044

## U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
B.S.		US- 4,254,340	01-08-1979		
		US- 4,409,486	05-29-1981		
		US- 4,512,812	09-22-1983		
		US- 4,529,474	01-30-1984		
		US- 4,619,844	01-22-1985		
		US- 4,640,221	10-30-1985		
		US- 4,657,616	05-17-1985		
		US- 4,665,315	04-01-1985		
		US- 4,703,183	12-05-1985		
		US- 4,723,967	04-27-1987		
		US- 4,738,693	11-4-1987		
		US- 4,786,352	09-12-1986		
		US- 4,958,078	01-05-1989		
		US- 4,960,488	12-19-1989		
		US- 4,983,850	03-09-1989		
		US- 5,028,791	02-28-1990		
	US- 5,049,784	05-24-1990			
B.S.		US- 5,083,061	11-15-1990		
		US- 5,089,747	02-16-1990		

**FOREIGN PATENT DOCUMENTS**

[illegible]

Examiner Signature	/Bernard Souw/	Date Considered	02/29/2008
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*Applicant's unique citation designation number (optional). \*See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \*Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \*For Japanese patent documents, the indication of the year of the Empire must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.6 is possible. \*Applicant to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 42 and 37 CFR 1.11. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application forms to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be directed to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



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/B.S.		US- 5,429,070	11-20-1992		
		US- 5,451,258	05-11-1994		
		US- 5,466,942	12-10-1993		
		US- 5,486,235	08-09-1993		
		US- 5,536,330	05-15-1995		
		US- 5,554,854	07-17-1995		
		US- 5,576,538	03-27-1995		
		US- 5,616,208	06-07-1994		
		US- 5,633,506	08-28-1995		
		US- 5,661,308	05-30-1996		
		US- 5,676,759	05-17-1995		
		US- 5,685,916	07-07-1995		
		US- 5,700,327	03-10-1995		
		US- 5,714,738	07-10-1995		
		US- 5,747,936	11-25-1996		
		US- 5,751,002	01-30-1996		
		US- 5,779,849	01-30-1997		
		US- 5,780,863	04-29-1997		
/B.S.		US- 5,785,796	12-24-1996		

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Examiner Signature	/Bernard Souw/	Date Considered	02/29/2008
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This collection of information is required by 37 CFR 1.87 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U. S. PATENT DOCUMENTS					
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/B.S.	US-	5,788,778	09-16-1996		
	US-	5,824,375	10-24-1996		
	US-	5,832,177	04-21-1995		
	US-	5,843,239	03-03-1997		
	US-	5,882,416	06-19-1997		
	US-	5,883,364	08-26-1996		
	US-	5,883,391	06-16-1997		
	US-	5,886,355	08-20-1996		
	US-	5,932,882	11-08-1996		
	US-	5,940,724	04-30-1997		
	US-	5,993,766	05-20-1997		
	US-	6,013,332	12-06-1996		
	US-	6,060,034	06-02-1998		
	US-	6,068,729	09-03-1998		
	US-	6,093,625	05-20-1998		
	/B.S.	US-	6,107,634	04-30-1998	
US-		6,130,436	06-02-1998		
US-		6,143,084	03-19-1998		
US-		6,150,628	06-26-1997		

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Date Considered	02/29/2008
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**INFORMATION DISCLOSURE  
 STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet **5** of **1**

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/B.S./	US-	6,160,262	10-21-1998		
	US-	6,178,925 B1	09-29-1999		
	US-	6,184,532 B1	05-22-1998		
	US-	6,221,169 B1	05-10-1999		
	US-	6,242,750 B1	11-25-1998		
	US-	6,253,783	10-24-2000		
	US-	6,259,105 B1	05-10-1999		
	US-	6,271,529 B1	05-22-1998		
	US-	6,288,403 B1	10-11-1999		
	US-	6,313,475 B1	07-26-2000		
	US-	6,335,534 B1	04-15-1999		
	US-	6,338,312 B2	04-15-1998		
	US-	6,355,933 B1	01-13-1999		
	US-	6,423,976	05-28-1999		
	US-	6,441,382 B1	05-21-1999		
	US-	6,449,521 B1	09-18-1998		
	US-	6,452,198 B1	06-28-2001		
	US-	6,452,338	03-17-1999		
/B.S./	US-	6,464,891 B1	03-17-1999		

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code* Number * Kind Code* (if known)			

Examiner Signature	/Bernard Souw/	Date Considered	02/29/2008
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Sheet	6	of
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/B.S.		US 6,479,828 B2	12-15-2000		
		US 6,486,431 B1	09-12-2000		
		US 6,489,622 B1	03-01-2000		
		US 6,498,348 B2	12-15-2000		
		US 6,528,804 B1	03-13-2000		
		US 6,545,419 B2	03-07-2001		
		US 6,559,462 B1	10-31-2000		
		US 6,614,033 B2	12-05-2001		
		US 6,617,593 B2	12-04-2000		
		US 6,620,256 B1	11-08-2000		
		US 6,639,227 B1	10-18-2000		
		US 6,653,643 B2	12-26-2001		
		US 6,664,547 B2	05-01-2002		
		US 6,670,623 B2	03-07-2001		
		US 6,670,624 B1	03-07-2003		
		US 6,686,601 B2	12-02-2002		
		US 6,703,628 B2	05-23-2003		
		US 6,710,358 B1	02-25-2000		
/B.S.		US 6,712,084 B2	06-24-2002		

**FOREIGN PATENT DOCUMENTS**

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/B.S.		US- 6,740,586	11-06-2002		
		US- 6,770,888 B1	06-25-2003		
		US- 6,772,776 B2	09-18-2001		
		US- 6,777,696 B1	02-21-2003		
		US- 6,818,909 B2	11-07-2003		
		US- 6,830,631	02-21-2002		
		US- 6,835,930 B2	01-08-2004		
		US- 6,841,141 B2	09-26-2002		
		US- 6,852,242	02-23-2001		
		US- 6,885,014 B2	07-31-2002		
		US- 6,885,812 B2	03-06-2003		
		US- 6,909,102 B1	01-21-2004		
		US- 6,909,839 B2	07-23-2003		
		US- 6,921,062 B2	07-23-2002		
		US- 6,946,667 B2	11-19-2002		
		US- 6,956,225 B1	04-01-2004		
		US- 6,958,481 B2	08-22-2001		
		US- 6,992,311 B1	01-18-2005		
/B.S.		US- 2003/0111014 A1	12-18-2001		

[illegible]

Date Considered

02/29/2008

**\*EXAMINER:** Initial if reference considered, whether or not direction is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See "Kind Codes" of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

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/B.S./	US-	2003/0030010 A1	08-07-2001		
	US-	2004/0175160 A1	03-06-2003		
	US-	2005/0169828 A1	02-02-2005		
	US-	2005/0202657 A1	03-11-2005		
	US-	2005/0258380 A1	05-06-2005		
	US-	2005/0277246 A1	06-11-2005		
/B.S./	US-	2006/0017010 A1	07-22-2004		
	US-				
	US-				
	US-				
	US-				
	US-				
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	US-				
	US-				
	US-				
	US-				
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> , Number <sup>4</sup> , Kind Code <sup>5</sup> (if known)				
/B.S./		WO 98/15545	11-13-1995			
		EP 0140975 A1	03-19-1984			
		EP 0474108 A1	08-28-1991			
		EP 0555 546 A1	12-15-1992			
		EP 0648861 A1	10-06-1994			
/B.S./		EP 0697 467 A1	07-10-1995			

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**Complete if Known**

Application Number	10/582,392
Filing Date	June 9, 2006
First Named Inventor	Horsky, et al
Art Unit	Herewith
Examiner Name	Kerewith
Attorney Docket Number	211843-00044

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## U. S. PATENT DOCUMENTS

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